

**Cluster – Manufacturing**  
**Pathway –Production**  
**Program of Study – Welding**

**Sample Plan of Study**

	9 <sup>th</sup> Grade	10 <sup>th</sup> Grade	11 <sup>th</sup> Grade	12 <sup>th</sup> Grade
Smart Core	English I or Pre-AP	English II or Pre-AP	English III or AP	English IV or AP
	Algebra I or Geometry	Geometry or Algebra II	Algebra II or Trigonometry Pre- AP Calculus	AP Calculus College Algebra AP Statistics
	Physical Science	Biology Pre-AP Chemistry Applied Biology/Chemistry	Chemistry Physics Principles of Technology	AP Biology AP Chemistry AP Physics Earth & Space Science
	Civics	World History	US History	Economics
<b>Foundation Courses</b> Career Orientation Computer Technology Keyboarding  <b>Graduation Requirements</b> English 4 units Math 4 units Science 3 units Social Studies 3 units Fine Arts ½ unit Health and Safety ½ unit Oral Communication ½ unit Physical Education ½ unit Career Focus 6 units  <b>Arkansas Challenge</b> Foreign Language 2 units		<b>Program of Study Support Courses</b> EAST/Workforce Technology Internship Workplace Readiness  <b>Support Courses</b> Foreign Language Word Processing or Computer Business Applications (CBA)  <b>Extended Learning Opportunities</b> SkillsUSA Job Shadowing  Youth Apprenticeship Western Arkansas Tech Ctr Conway Area Tech Ctr	<b>Welding Core Courses</b> Metal Fabrication  <b>Welding Electives</b> Shielded Metal Arc Welding Gas Metal Arc Welding Gas Tungsten Arc Welding  <b>Welding Industry Certifications</b> American Welding Society Welder National Center for Construction Education and Research  <b>Related Programs of Study</b> Industrial Equipment Maintenance	
Postsecondary Opportunities				
Major		Postsecondary School		Certificate/Degree Program
Basic Welding Technology		SACC El Dorado		Certificate
Welding Technology		ANC Blytheville ATU Russellville ASU Beebe, Mountain Home & Newport BRTC Pocahontas CCC UA DeQueen MSCC West Memphis NPCC Hot Springs NAC Harrison OTC Malvern PCC UA PTC North Little Rock SACC El Dorado SEAC Pine Bluff SAUT Camden UA Fort Smith, Morrilton, Monticello & Hope		Certificate
Welding Technology		ASU Beebe		Associate's

ARC Welding	UA Ft. Smith	Certificate
Inert Gas Welding	PCCUA Helena	Certificate
Metal Inert Gas (MIG)	SEAC Pine Bluff	Certificate
MIG Welding	UA Ft. Smith, NPCC Hot Springs	Certificate
Pipe Welding	UACC Morrilton	Certificate
TIG Welding	UA Ft. Smith, SEAC Pine Bluff, NPCC Hot Springs	Certificate
Welding	ASU Jonesboro and ASU Newport	Certificate
Welding (STICK)	NPCC Hot Springs	Certificate
Welding Layout & Pipefitting	SACC El Dorado	Certificate
Welding Technology & Construction	UACC Hope	Certificate
Welding-Gas Tungsten Arc	SACC El Dorado	Certificate
Welding: Layout & Fabrication	UA Ft. Smith	Certificate